

12/4

#2

OIPE

## RAW SEQUENCE LISTING

DATE: 12/07/2001

PATENT APPLICATION: US/09/998,491

TIME: 14:07:14

Input Set : A:\3578-120.txt

Output Set: N:\CRF3\12072001\I998491.raw

**ENTERED**

4 <110> APPLICANT: Mileusnic, Radmilla  
 5 Rose, Stephen Peter Russell  
 8 <120> TITLE OF INVENTION: Polypeptides and their Uses  
 11 <130> FILE REFERENCE: 3578-120  
 C--> 13 <140> CURRENT APPLICATION NUMBER: US/09/998,491  
 C--> 13 <141> CURRENT FILING DATE: 2001-11-30  
 13 <150> PRIOR APPLICATION NUMBER: GB 0109558.7  
 14 <151> PRIOR FILING DATE: 2001-04-18  
 16 <150> PRIOR APPLICATION NUMBER: GB 0120084  
 17 <151> PRIOR FILING DATE: 2001-08-07  
 19 <160> NUMBER OF SEQ ID NOS: 11  
 21 <170> SOFTWARE: FastSEQ for Windows Version 4.0  
 23 <210> SEQ ID NO: 1  
 24 <211> LENGTH: 695  
 25 <212> TYPE: PRT  
 26 <213> ORGANISM: Homo sapiens  
 28 <400> SEQUENCE: 1  
 29 Met Leu Pro Gly Leu Ala Leu Leu Leu Ala Ala Trp Thr Ala Arg  
 30 1 5 10 15  
 31 Ala Leu Glu Val Pro Thr Asp Gly Asn Ala Gly Leu Leu Ala Glu Pro  
 32 20 25 30  
 33 Gln Ile Ala Met Phe Cys Gly Arg Leu Asn Met His Met Asn Val Gln  
 34 35 40 45  
 35 Asn Gly Lys Trp Asp Ser Asp Pro Ser Gly Thr Lys Thr Cys Ile Asp  
 36 50 55 60  
 37 Thr Lys Glu Gly Ile Leu Gln Tyr Cys Gln Glu Val Tyr Pro Glu Leu  
 38 65 70 75 80  
 39 Gln Ile Thr Asn Val Val Glu Ala Asn Gln Pro Val Thr Ile Gln Asn  
 40 85 90 95  
 41 Trp Cys Lys Arg Gly Arg Lys Gln Cys Lys Thr His Pro His Phe Val  
 42 100 105 110  
 43 Ile Pro Tyr Arg Cys Leu Val Gly Glu Phe Val Ser Asp Ala Leu Leu  
 44 115 120 125  
 45 Val Pro Asp Lys Cys Lys Phe Leu His Gln Glu Arg Met Asp Val Cys  
 46 130 135 140  
 47 Glu Thr His Leu His Trp His Thr Val Ala Lys Glu Thr Cys Ser Glu  
 48 145 150 155 160  
 49 Lys Ser Thr Asn Leu His Asp Tyr Gly Met Leu Leu Pro Cys Gly Ile  
 50 165 170 175  
 51 Asp Lys Phe Arg Gly Val Glu Phe Val Cys Cys Pro Leu Ala Glu Glu  
 52 180 185 190  
 53 Ser Asp Asn Val Asp Ser Ala Asp Ala Glu Glu Asp Asp Ser Asp Val  
 54 195 200 205  
 55 Trp Trp Gly Gly Ala Asp Thr Asp Tyr Ala Asp Gly Ser Glu Asp Lys  
 56 210 215 220  
 57 Val Val Glu Val Ala Glu Glu Glu Glu Val Ala Glu Val Glu Glu Glu  
 58 225 230 235 240

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```

59 Glu Ala Asp Asp Asp Glu Asp Asp Glu Asp Gly Asp Glu Val Glu Glu
60          245          250          255
61 Glu Ala Glu Glu Pro Tyr Glu Glu Ala Thr Glu Arg Thr Thr Ser Ile
62          260          265          270
63 Ala Thr Thr Thr Thr Thr Thr Thr Glu Ser Val Glu Glu Val Val Arg
64          275          280          285
65 Val Pro Thr Thr Ala Ala Ser Thr Pro Asp Ala Val Asp Lys Tyr Leu
66          290          295          300
67 Glu Thr Pro Gly Asp Glu Asn Glu His Ala His Phe Gln Lys Ala Lys
68 305          310          315          320
69 Glu Arg Leu Glu Ala Lys His Arg Glu Arg Met Ser Gln Val Met Arg
70          325          330          335
71 Glu Trp Glu Glu Ala Glu Arg Gln Ala Lys Asn Leu Pro Lys Ala Asp
72          340          345          350
73 Lys Lys Ala Val Ile Gln His Phe Gln Glu Lys Val Glu Ser Leu Glu
74          355          360          365
75 Gln Glu Ala Ala Asn Glu Arg Gln Gln Leu Val Glu Thr His Met Ala
76          370          375          380
77 Arg Val Glu Ala Met Leu Asn Asp Arg Arg Arg Leu Ala Leu Glu Asn
78 385          390          395          400
79 Tyr Ile Thr Ala Leu Gln Ala Val Pro Pro Arg Pro Arg His Val Phe
80          405          410          415
81 Asn Met Leu Lys Lys Tyr Val Arg Ala Glu Gln Lys Asp Arg Gln His
82          420          425          430
83 Thr Leu Lys His Phe Glu His Val Arg Met Val Asp Pro Lys Lys Ala
84          435          440          445
85 Ala Gln Ile Arg Ser Gln Val Met Thr His Leu Arg Val Ile Tyr Glu
86          450          455          460
87 Arg Met Asn Gln Ser Leu Ser Leu Leu Tyr Asn Val Pro Ala Val Ala
88 465          470          475          480
89 Glu Glu Ile Gln Asp Glu Val Asp Glu Leu Leu Gln Lys Glu Gln Asn
90          485          490          495
91 Tyr Ser Asp Asp Val Leu Ala Asn Met Ile Ser Glu Pro Arg Ile Ser
92          500          505          510
93 Tyr Gly Asn Asp Ala Leu Met Pro Ser Leu Thr Glu Thr Lys Thr Thr
94          515          520          525
95 Val Glu Leu Leu Pro Val Asn Gly Glu Phe Ser Leu Asp Asp Leu Gln
96          530          535          540
97 Pro Trp His Ser Phe Gly Ala Asp Ser Val Pro Ala Asn Thr Glu Asn
98 545          550          555          560
99 Glu Val Glu Pro Val Asp Ala Arg Pro Ala Ala Asp Arg Gly Leu Thr
100          565          570          575
101 Thr Arg Pro Gly Ser Gly Leu Thr Asn Ile Lys Thr Glu Glu Ile Ser
102          580          585          590
103 Glu Val Lys Met Asp Ala Glu Phe Arg His Asp Ser Gly Tyr Glu Val
104          595          600          605
105 His His Gln Lys Leu Val Phe Phe Ala Glu Asp Val Gly Ser Asn Lys
106          610          615          620
107 Gly Ala Ile Ile Gly Leu Met Val Gly Gly Val Val Ile Ala Thr Val

```

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```

108 625                      630                      635                      640
109 Ile Val Ile Thr Leu Val Met Leu Lys Lys Lys Gln Tyr Thr Ser Ile
110                      645                      650                      655
111 His His Gly Val Val Glu Val Asp Ala Ala Val Thr Pro Glu Glu Arg
112                      660                      665                      670
113 His Leu Ser Lys Met Gln Gln Asn Gly Tyr Glu Asn Pro Thr Tyr Lys
114                      675                      680                      685
115 Phe Phe Glu Gln Met Gln Asn
116      690                      695
119 <210> SEQ ID NO: 2
120 <211> LENGTH: 534
121 <212> TYPE: PRT
122 <213> ORGANISM: Chick
124 <400> SEQUENCE: 2
125 Gly Met Asn Leu His Asp Tyr Gly Met Leu Leu Pro Cys Gly Ile Asp
126 1                      5                      10                      15
127 Lys Phe Arg Gly Val Glu Phe Val Cys Cys Pro Leu Ala Glu Glu Ser
128                      20                      25                      30
129 Asp Asn Leu Asp Ser Ala Asp Ala Glu Asp Asp Asp Ser Asp Val Trp
130                      35                      40                      45
131 Trp Gly Gly Ala Asp Ala Asp Tyr Ala Asp Gly Ser Asp Asp Lys Val
132                      50                      55                      60
133 Val Glu Glu Gln Pro Glu Glu Asp Glu Glu Leu Thr Val Val Glu Asp
134 65                      70                      75                      80
135 Glu Asp Ala Asp Asp Asp Asp Asp Asp Gly Asp Glu Ile Glu Glu
136                      85                      90                      95
137 Thr Glu Glu Glu Tyr Glu Glu Ala Thr Glu Arg Thr Thr Ser Ile Ala
138                      100                     105                     110
139 Thr Thr Thr Thr Thr Thr Thr Glu Ser Val Glu Glu Val Val Arg Val
140                      115                     120                     125
141 Pro Thr Thr Ala Ala Ser Thr Pro Asp Ala Val Asp Lys Tyr Leu Glu
142                      130                     135                     140
143 Thr Pro Gly Asp Glu Asn Glu His Ala His Phe Gln Lys Ala Lys Glu
144 145                      150                     155                     160
145 Arg Leu Glu Ala Lys His Arg Glu Arg Met Ser Gln Val Met Arg Glu
146                      165                     170                     175
147 Trp Glu Glu Ala Glu Arg Gln Ala Lys Asn Leu Pro Lys Ala Asp Lys
148                      180                     185                     190
149 Lys Ala Val Ile Gln His Phe Gln Glu Lys Val Glu Ser Leu Glu Gln
150                      195                     200                     205
151 Glu Ala Ala Asn Glu Arg Gln Gln Leu Val Glu Thr His Met Ala Arg
152                      210                     215                     220
153 Val Glu Ala Met Leu Asn Asp Arg Arg Arg Ile Ala Leu Glu Asn Tyr
154 225                      230                     235                     240
155 Ile Thr Ala Leu Gln Thr Val Pro Pro Arg Pro Arg His Val Phe Asn
156                      245                     250                     255
157 Met Leu Lys Lys Tyr Val Arg Ala Glu Gln Lys Asp Arg Gln His Thr
158                      260                     265                     270
159 Leu Lys His Phe Glu His Val Arg Met Val Asp Pro Lys Lys Ala Ala

```

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```

160          275          280          285
161 Gln Ile Arg Ser Gln Val Met Thr His Leu Arg Val Ile Tyr Glu Arg
162          290          295          300
163 Met Asn Gln Ser Leu Ser Phe Leu Tyr Asn Val Pro Ala Val Ala Glu
164 305          310          315          320
165 Glu Ile Gln Asp Glu Val Asp Glu Leu Leu Gln Lys Glu Gln Asn Tyr
166          325          330          335
167 Ser Asp Asp Val Leu Ala Asn Met Ile Ser Glu Pro Arg Ile Ser Tyr
168          340          345          350
169 Gly Asn Asp Ala Leu Met Pro Ser Leu Thr Glu Thr Lys Thr Thr Val
170          355          360          365
171 Glu Leu Leu Pro Val Asp Gly Glu Phe Ser Leu Asp Asp Leu Gln Pro
172          370          375          380
173 Trp His Pro Phe Gly Val Asp Ser Val Pro Ala Asn Thr Glu Asn Glu
174 385          390          395          400
175 Val Glu Pro Val Asp Ala Arg Pro Ala Ala Asp Arg Gly Leu Thr Thr
176          405          410          415
177 Arg Pro Gly Ser Gly Leu Thr Asn Val Lys Thr Glu Glu Val Ser Glu
178          420          425          430
179 Val Lys Met Asp Ala Glu Phe Arg His Asp Ser Gly Tyr Glu Val His
180          435          440          445
181 His Gln Lys Leu Val Phe Phe Ala Glu Asp Val Gly Ser Asn Lys Gly
182          450          455          460
183 Ala Ile Ile Gly Leu Met Val Gly Gly Val Val Ile Ala Thr Val Ile
184 465          470          475          480
185 Val Ile Thr Leu Val Met Leu Lys Lys Lys Gln Tyr Thr Ser Ile His
186          485          490          495
187 His Gly Val Val Glu Val Asp Ala Ala Val Thr Pro Glu Glu Arg His
188          500          505          510
189 Leu Ser Lys Met Gln Gln Asn Gly Tyr Glu Asn Pro Thr Tyr Lys Phe
190          515          520          525
191 Phe Glu Gln Met Gln Asn
192          530
195 <210> SEQ ID NO: 3
196 <211> LENGTH: 5
197 <212> TYPE: PRT
198 <213> ORGANISM: Artificial Sequence
200 <220> FEATURE:
201 <223> OTHER INFORMATION: 5-mer polypeptide
203 <400> SEQUENCE: 3
204 Arg Glu Arg Met Ser
205 1 5
208 <210> SEQ ID NO: 4
209 <211> LENGTH: 5
210 <212> TYPE: PRT
211 <213> ORGANISM: Artificial Sequence
213 <220> FEATURE:
214 <223> OTHER INFORMATION: 5-mer polypeptide
216 <400> SEQUENCE: 4

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## RAW SEQUENCE LISTING

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TIME: 14:07:14

Input Set : A:\3578-120.txt

Output Set: N:\CRF3\12072001\I998491.raw

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217 Ser Met Arg Glu Arg
218 1 5
221 <210> SEQ ID NO: 5
222 <211> LENGTH: 5
223 <212> TYPE: PRT
224 <213> ORGANISM: Artificial Sequence
226 <220> FEATURE:
227 <223> OTHER INFORMATION: 5-mer polypeptide
229 <400> SEQUENCE: 5
230 Arg Ser Ala Glu Arg
231 1 5
234 <210> SEQ ID NO: 6
235 <211> LENGTH: 17
236 <212> TYPE: PRT
237 <213> ORGANISM: Artificial Sequence
239 <220> FEATURE:
240 <223> OTHER INFORMATION: 16-mer polypeptide
242 <400> SEQUENCE: 6
243 Ala Lys Glu Arg Leu Glu Ala Lys His Arg Glu Arg Met Ser Gln Val
244 1 5 10 15
245 Met
249 <210> SEQ ID NO: 7
250 <211> LENGTH: 17
251 <212> TYPE: PRT
252 <213> ORGANISM: Artificial Sequence
254 <220> FEATURE:
255 <223> OTHER INFORMATION: 16-mer polypeptide
257 <400> SEQUENCE: 7
258 Met Val Gln Ser Met Arg Glu Arg His Lys Ala Glu Leu Arg Glu Lys
259 1 5 10 15
260 Ala
264 <210> SEQ ID NO: 8
265 <211> LENGTH: 17
266 <212> TYPE: PRT
267 <213> ORGANISM: Artificial Sequence
269 <220> FEATURE:
270 <223> OTHER INFORMATION: 17-mer polypeptide
272 <400> SEQUENCE: 8
273 Val His His Gln Lys Leu Val Phe Phe Ala Glu Asp Val Gly Ser Asn
274 1 5 10 15
275 Lys
279 <210> SEQ ID NO: 9
280 <211> LENGTH: 3
281 <212> TYPE: PRT
282 <213> ORGANISM: Artificial Sequence
284 <220> FEATURE:
285 <223> OTHER INFORMATION: 3-mer polypeptide
287 <400> SEQUENCE: 9
288 Arg Glu Arg

```

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/998,491

DATE: 12/07/2001

TIME: 14:07:15

Input Set : A:\3578-120.txt

Output Set: N:\CRF3\12072001\I998491.raw

L:13 M:270 C: Current Application Number differs, Replaced Current Application No

L:13 M:271 C: Current Filing Date differs, Replaced Current Filing Date